

## TEST REPORT

Report No: QMTL/R-123015/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>	Sample ID	QMTL/S-123015	
	Date Received	16 Sep 2020	
	Date(s) Tested	16 Sep 2020 - 18 Sep 2020	
	Date Reported	20 Sep 2020	
Sample Description	L-4, Cooling Tower - 1		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	16.09.2020 / 11:00 AM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	28°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	110
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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The above test results are only applicable to the sample(s) referred above.

Reported By



**ANILA GEORGE**  
LABORATORY MANAGER



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**END OF REPORT**

## TEST REPORT

Report No: QMTL/R-123016/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates  <b>ATTN : MR. JASMAN PINTO</b>		Sample ID	QMTL/S-123016
		Date Received	16 Sep 2020
		Date(s) Tested	16 Sep 2020 - 18 Sep 2020
		Date Reported	20 Sep 2020
Sample Description	<b>L-4, Cooling Tower - 2</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	16.09.2020 / 11:15 AM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	28°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	80
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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**LABORATORY MANAGER**



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## TEST REPORT

Report No: QMTL/R-123017/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-123017
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	16 Sep 2020
		Date(s) Tested	16 Sep 2020 - 18 Sep 2020
		Date Reported	20 Sep 2020
Sample Description	L-4, Cooling Tower - 3		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	16.09.2020 / 11:30 AM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	35°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	8
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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## TEST REPORT

Report No: QMTL/R-123018/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-123018
<b>ATTN : MR. JASMAN PINTO</b>		Date Received	16 Sep 2020
		Date(s) Tested	16 Sep 2020 - 18 Sep 2020
		Date Reported	20 Sep 2020
Sample Description	L-4, Cooling Tower - 4		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	16.09.2020 / 11:35 AM
Sample Container	1x1L PB	Sampling Point	Tank
Sample Receipt Temp	4°C	Sample Onsite Temp	34°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

## TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
E.coli	APHA 9222 H & I (23rd Edition)	CFU/100 ml	-	Zero
Fecal coliforms	APHA 9222 D (23rd Edition)	CFU/100 ml	-	Zero
Pseudomonas aeruginosa	APHA 9213 E (23rd Edition)	CFU/100 ml	-	Zero
Total Bacterial Count	APHA 9215 B (23rd Edition)	CFU/ml	10,000	60
Total Coliforms	APHA 9222 B (23rd Edition)	CFU/100 ml	-	Zero

Remarks	The sample meets DM Water Systems quality (2010) specifications for Cooling Water Systems with respect to the above tests only.
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Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction
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Test method deviation	None
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Test performed by Emp#	55 & 74
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Report prepared by Emp#	72
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**TEST REPORT**

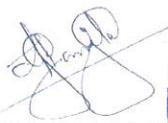
Report No: QMTL/R-123019/2020

<b>CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES</b> Abu Dhabi PO Box : 131463 United Arab Emirates		Sample ID	QMTL/S-123019
		Date Received	16 Sep 2020
		Date(s) Tested	16 Sep 2020 - 18 Sep 2020
<b>ATTN : MR. JASMAN PINTO</b>		Date Reported	20 Sep 2020
Sample Description	<b>P1, Hydrotherapy Pool</b>		
Sample Type	Water	Sampling Method	QMTL-WI-15
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	16.09.2020 / 11:40 AM
Sample Container	1x1L PB	Sampling Point	Pool
Sample Receipt Temp	4°C	Sample Onsite Temp	19.8°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

**TEST RESULTS**

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>MICROBIOLOGICAL ANALYSIS</b>				
Total bacterial count(Dip slide)	Kit Method	CFU/ml	1000	<1
Remarks	The sample meets DM Public swimming pool safety guidelines(2019,Doc Ref.:DM-PH&SD-GU81-PSPS2) specifications for Pool Water with respect to the above tests only.			
Keywords	CFU: Colony Forming Unit, APHA: American Public Health Association, DM: Dubai Municipality, NP: Not Provided, NA: Not Applicable, WI: Work Instruction, Doc Ref.: Document Reference			
Test method deviation	None			
Test performed by Emp#	55 & 74			
Report prepared by Emp#	72			
The above test results are only applicable to the sample(s) referred above.				

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## TEST REPORT

Report No: QMTL/R-123020/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-123020		
	Date Received	16 Sep 2020		
	Date(s) Tested	16 Sep 2020 - 20 Sep 2020		
	Date Reported	27 Sep 2020		
ATTN : MR. JASMAN PINTO				
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 05			
Sample Type	Water	Sampling Method	QMTL-SOP-128	
Client Name/Project	NP	Sampled By	QMTL Representative	
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	16.09.2020 / 11:50 AM	
Sample Container	1x500ml PB	Sampling Point	Tank	
Sample Receipt Temp	18°C	Sample Onsite Temp	34°C	
Sample Appearance	Clear	On-site Treatment	NA	
Reference	NP			

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>CHEMICAL PARAMETERS</b>				
Chloride	APHA 4500 Cl <sup>-</sup> B (23rd Edition)	mg/L	Max 250	18.1
Conductivity	APHA 2510 B (23rd Edition)	µs/cm	-	179.9@22.8°C
pH	APHA 4500 H+B (23rd Edition)	-	Min 7.0-Max 9.2	7.64@23.1°C
Total Dissolved Solids	APHA 2540-C (23rd Edition)	mg/L	Min 100-Max 1000	118.0
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C (23rd Edition)	mg/L	Max 300	66.0
Calcium Hardness	APHA 3500-Ca B (23rd Edition)	mg/L	Max 200	58.2
<b>METALS</b>				
Copper	APHA 3120 B (23rd Edition)	mg/L	Max 1.0	<0.05
Iron	APHA 3120 B (23rd Edition)	mg/L	Max 0.20	<0.05
Silver	APHA 3120 B (23rd Edition)	mg/L	Max 5.0	<0.05
Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only.			

Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
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Test performed by Emp#	67
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Report prepared by Emp#	22
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## TEST REPORT

Report No: QMTL/R-123021/2020

CLIENT : CRYSTALLINE ENVIRONMENTAL SERVICES Abu Dhabi PO Box : 131463 United Arab Emirates	Sample ID	QMTL/S-123021	
	Date Received	16 Sep 2020	
	Date(s) Tested	16 Sep 2020 - 20 Sep 2020	
	Date Reported	27 Sep 2020	
ATTN : MR. JASMAN PINTO			
Sample Description	Copper - Silver Ionisation – P2 Water Tank # 06		
Sample Type	Water	Sampling Method	QMTL-SOP-128
Client Name/Project	NP	Sampled By	QMTL Representative
Location	Healthpoint Hospital, Abu Dhabi	Sampling Date/Time	16.09.2020 / 12:00 PM
Sample Container	1x500ml PB	Sampling Point	Tank
Sample Receipt Temp	18°C	Sample Onsite Temp	22°C
Sample Appearance	Clear	On-site Treatment	NA
Reference	NP		

### TEST RESULTS

PARAMETERS	TEST METHODS	UNITS	GUIDELINES	RESULTS
<b>CHEMICAL PARAMETERS</b>				
Chloride	APHA 4500 Cl <sup>-</sup> B (23rd Edition)	mg/L	Max 250	16.6
Conductivity	APHA 2510 B (23rd Edition)	µs/cm	-	166.8@23.1°C
pH	APHA 4500 H+B (23rd Edition)	-	Min 7.0-Max 9.2	7.41@23.1°C
Total Dissolved Solids	APHA 2540-C (23rd Edition)	mg/L	Min 100-Max 1000	110.0
Total Hardness as (CaCO <sub>3</sub> )	APHA 2340-C (23rd Edition)	mg/L	Max 300	60.2
Calcium Hardness	APHA 3500-Ca B (23rd Edition)	mg/L	Max 200	54.4
<b>METALS</b>				
Copper	APHA 3120 B (23rd Edition)	mg/L	Max 1.0	<0.05
Iron	APHA 3120 B (23rd Edition)	mg/L	Max 0.20	<0.05
Silver	APHA 3120 B (23rd Edition)	mg/L	Max 5.0	<0.05
Remarks	The sample meets RSB Water Quality Regulations (4th Edition) January 2014 requirements for potable water with respect to the above tests only.			

Keywords	pH: Potential Hydrogen, APHA: American Public Health Association, RSB: Regulation & Supervision Bureau, SOP: Standard Operating Procedure, NA: Not Applicable, NP: Not Provided
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Test method deviation	None
Test performed by Emp#	67
Report prepared by Emp#	22

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